

FIG. 1

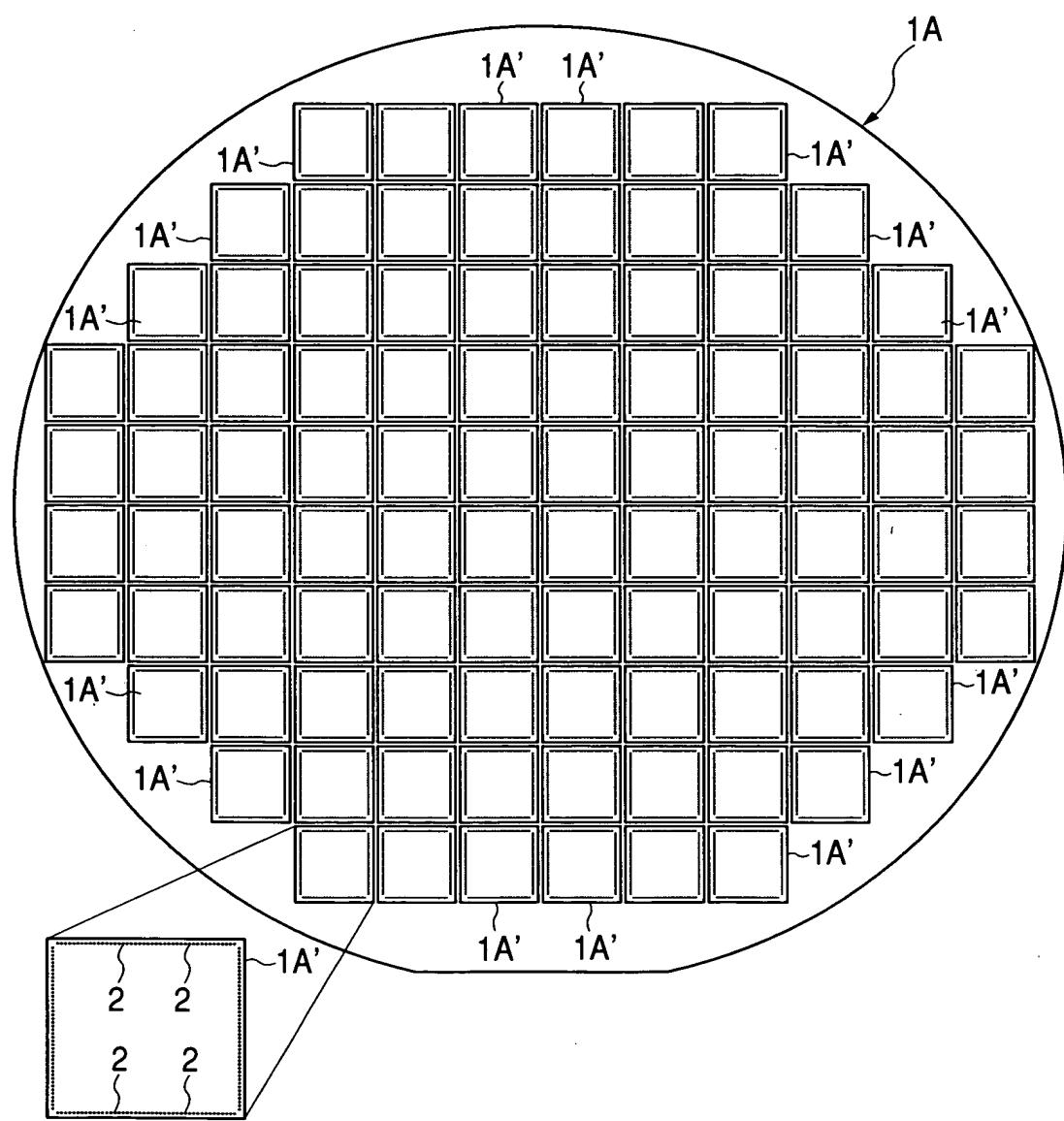


FIG. 2

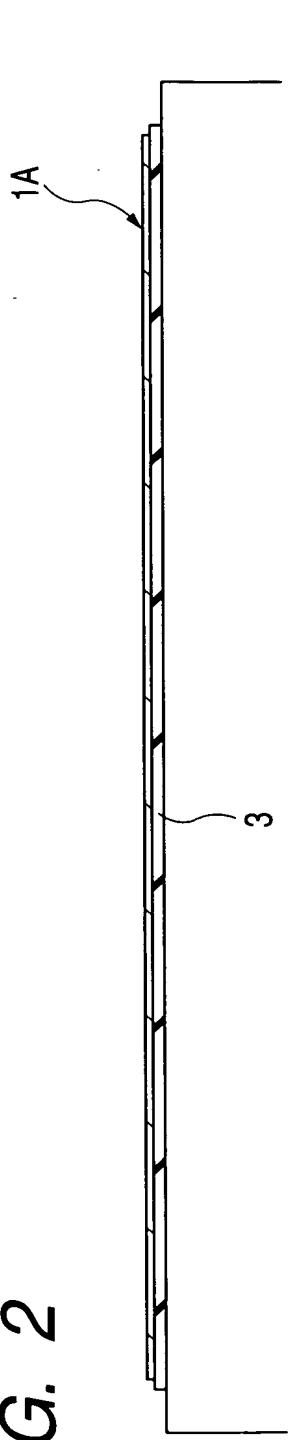


FIG. 3

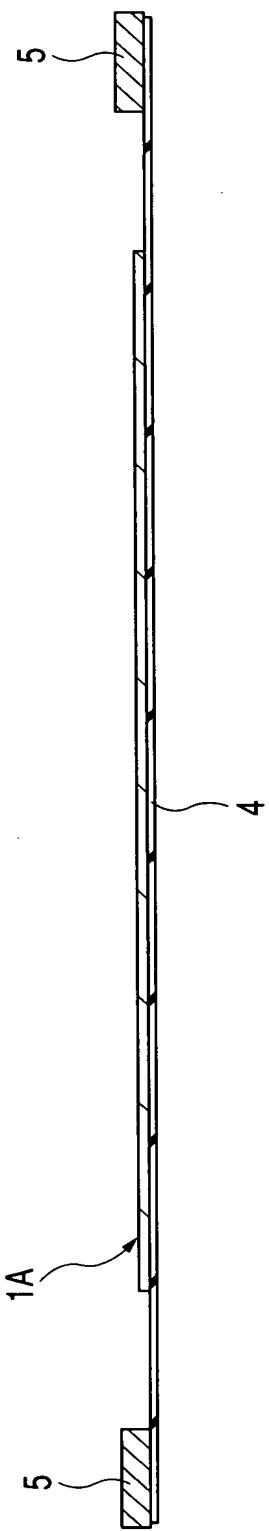


FIG. 4

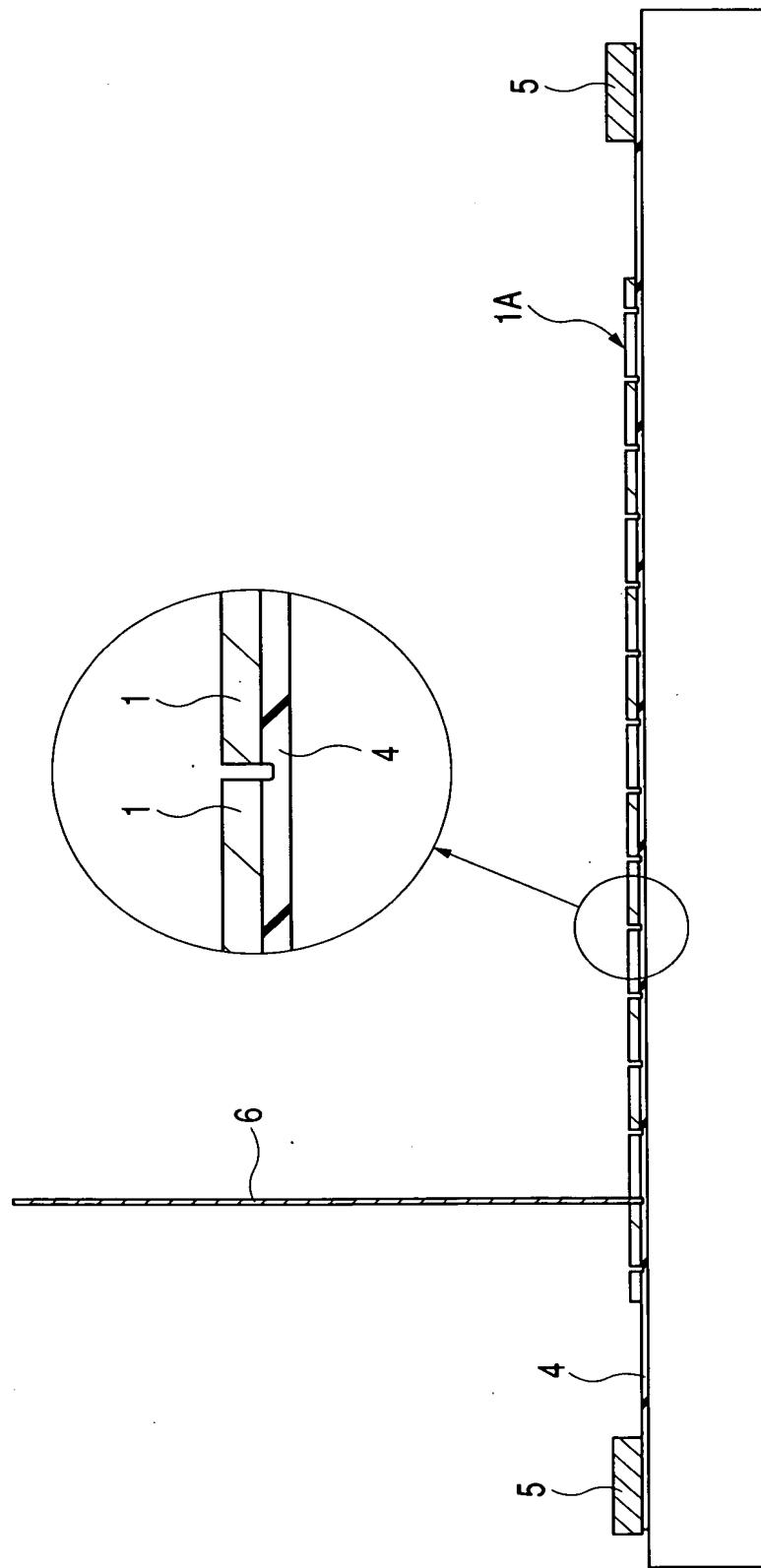


FIG. 5

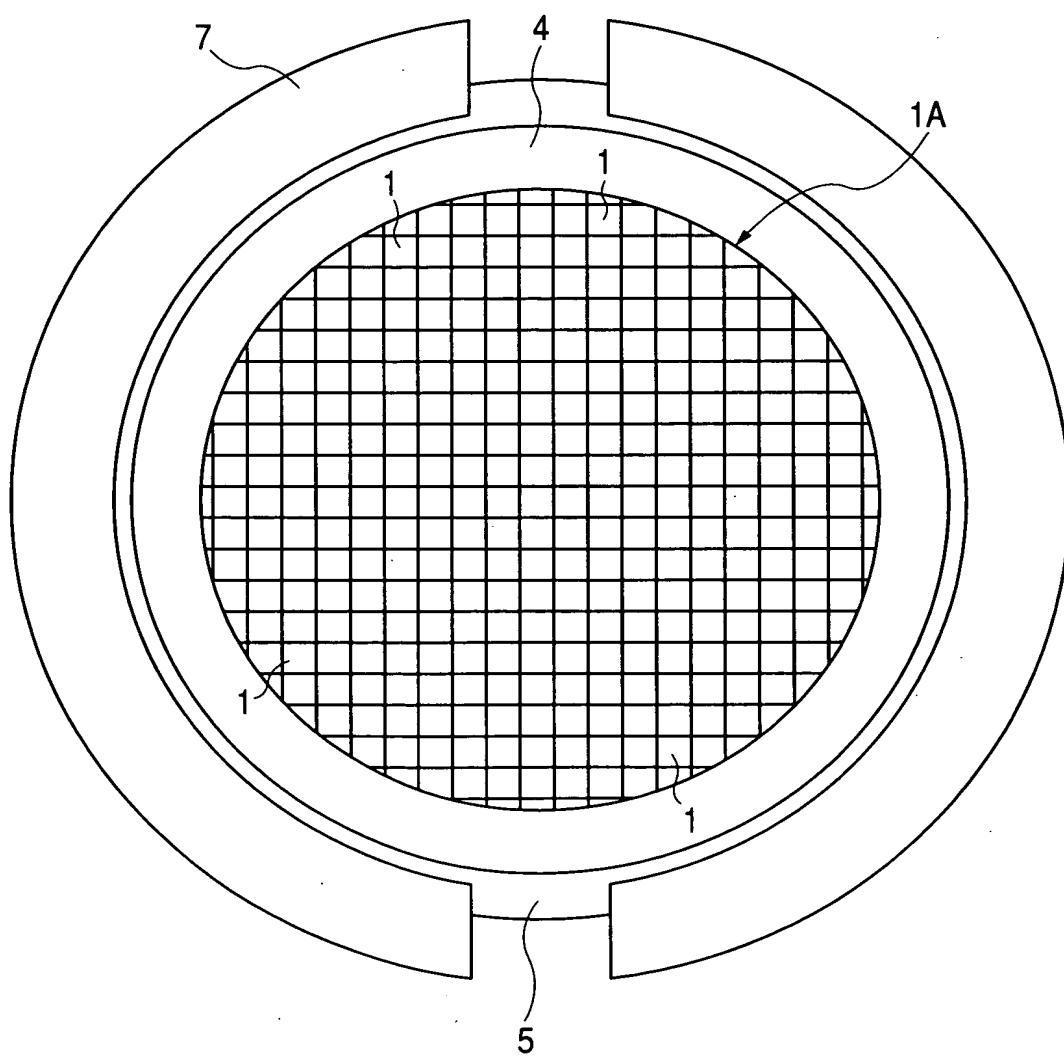


FIG. 6

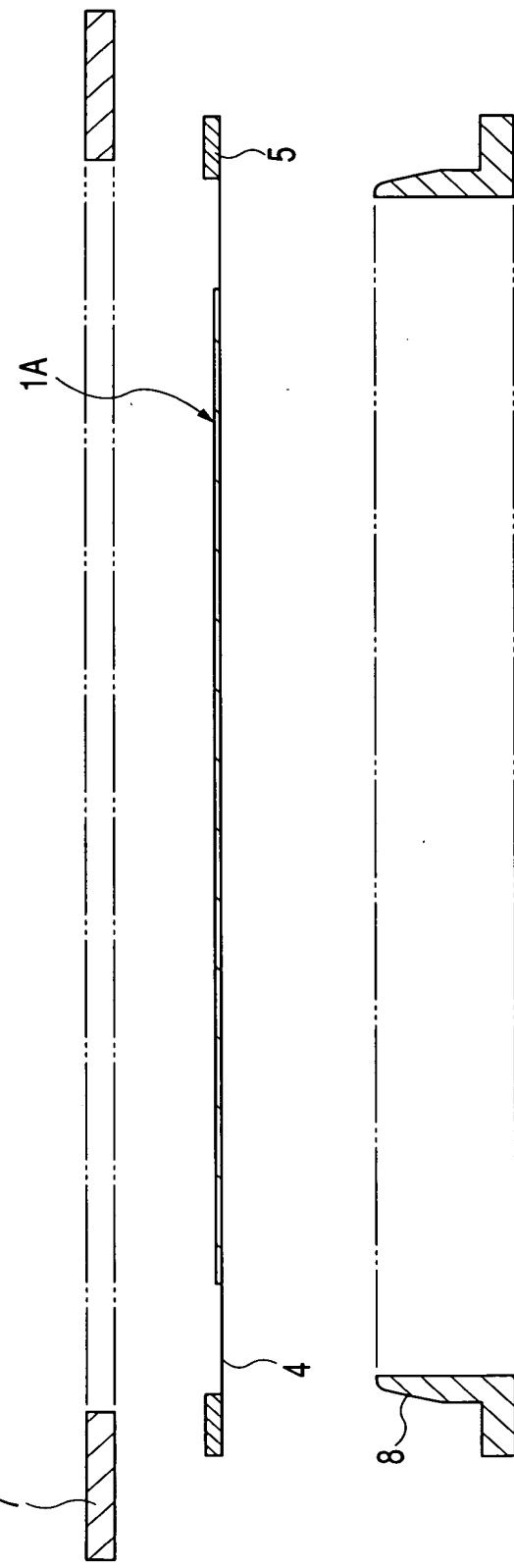


FIG. 7

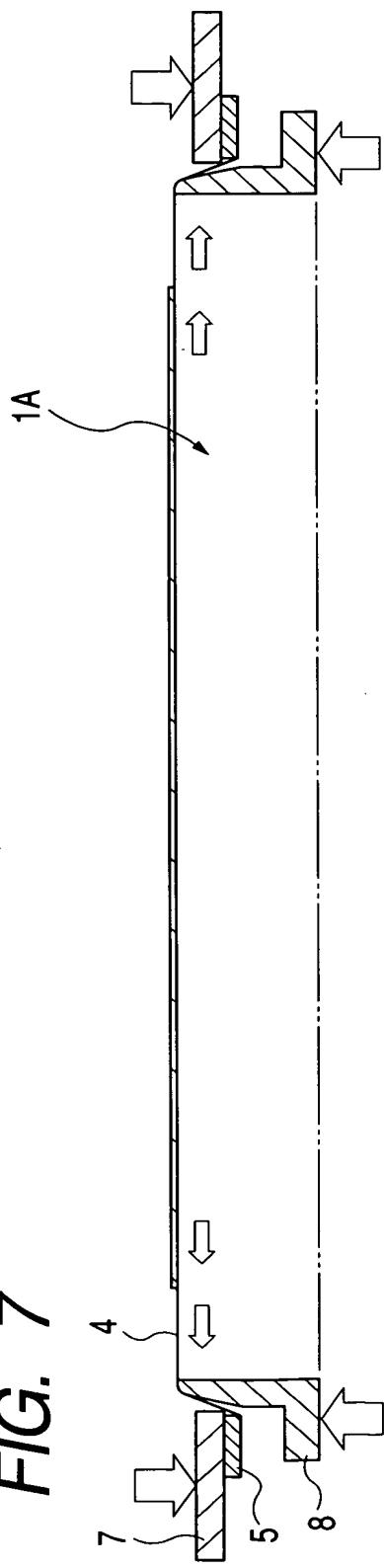


FIG. 8

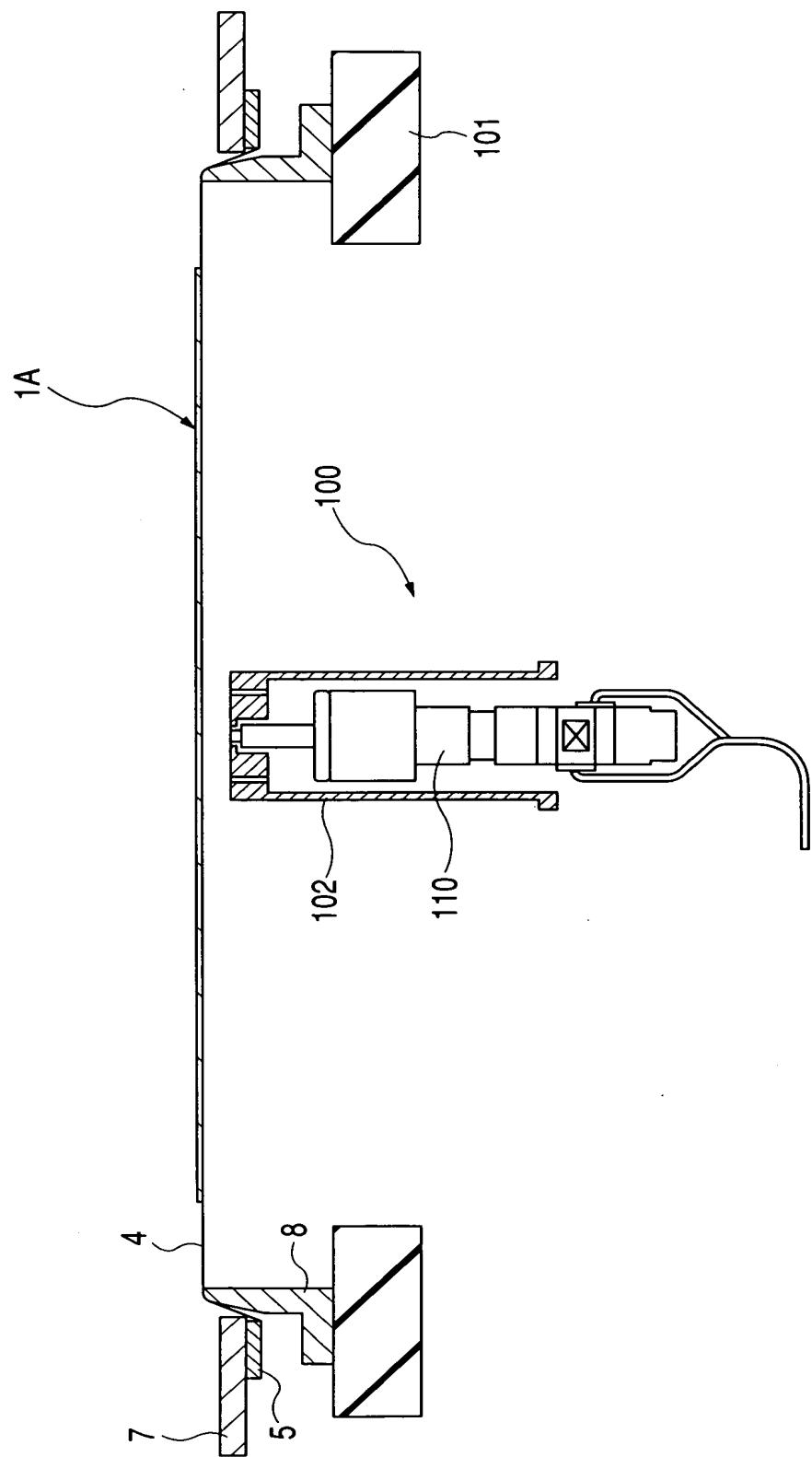


FIG. 9

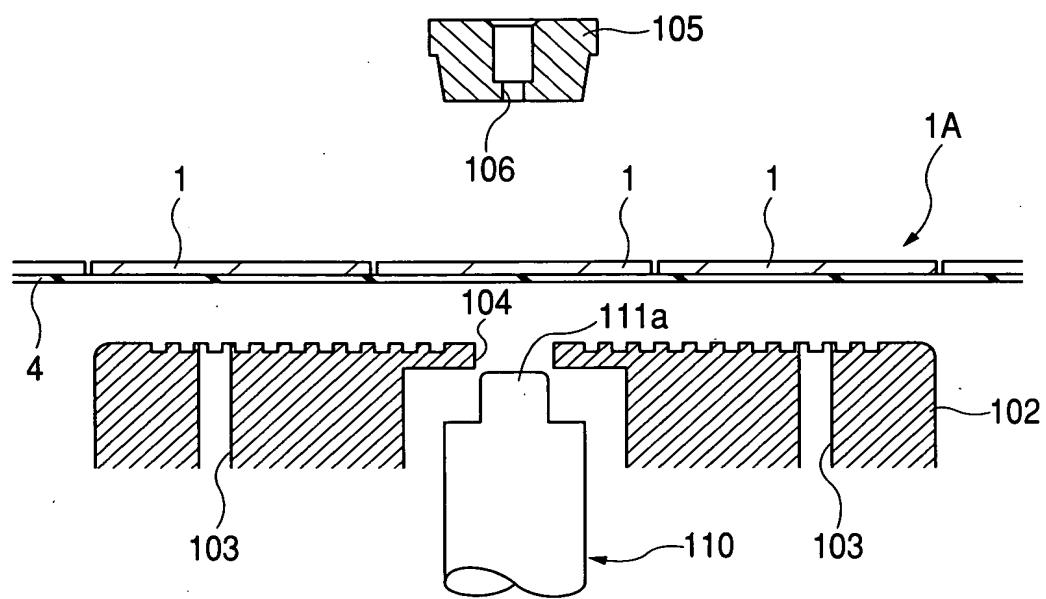


FIG. 10

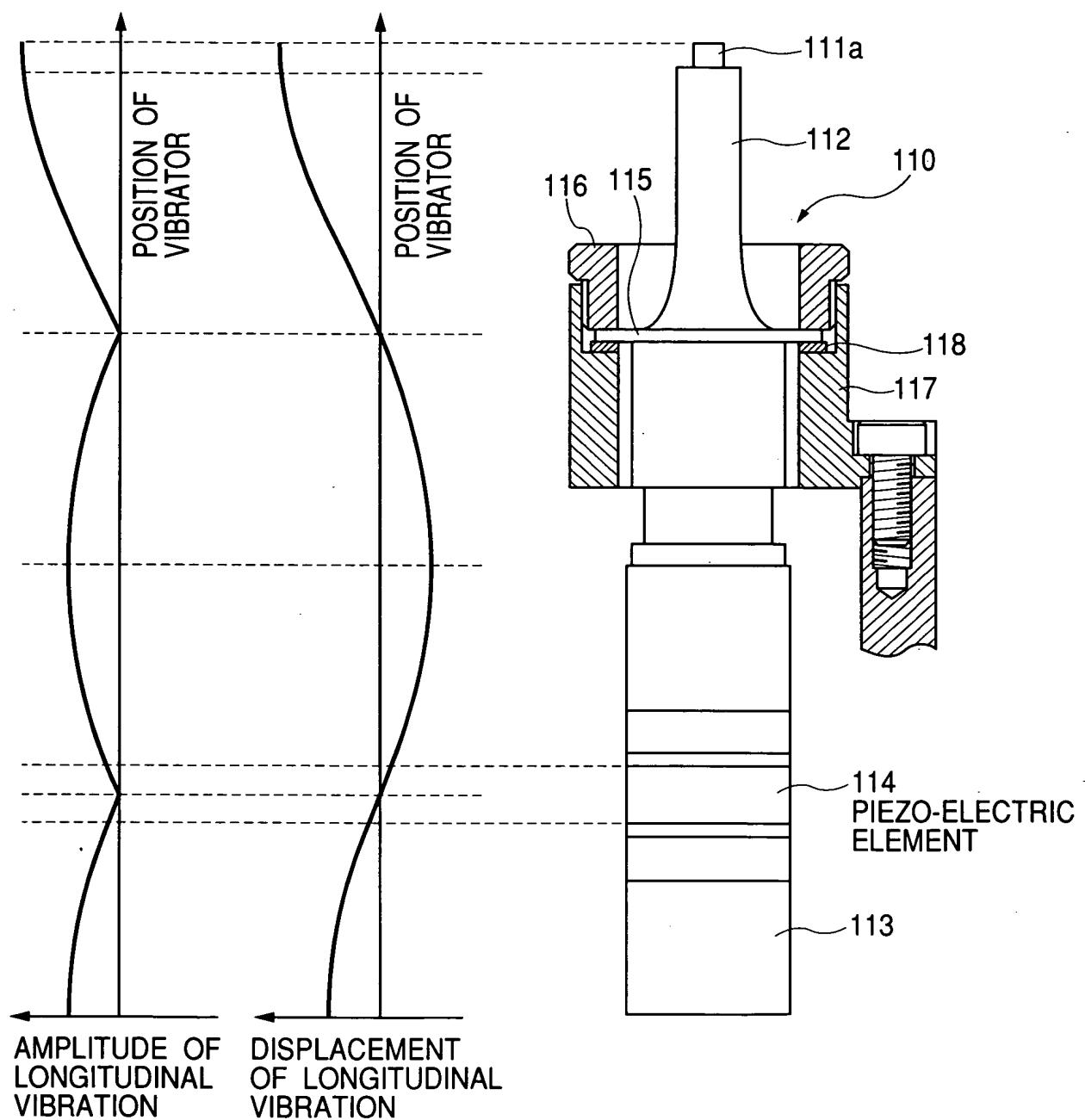


FIG. 11

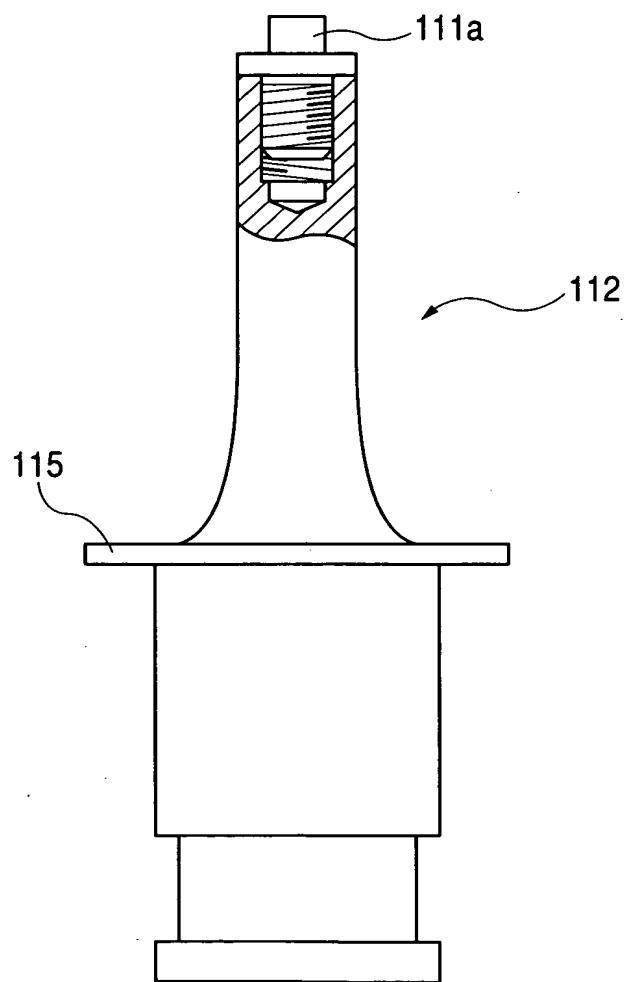
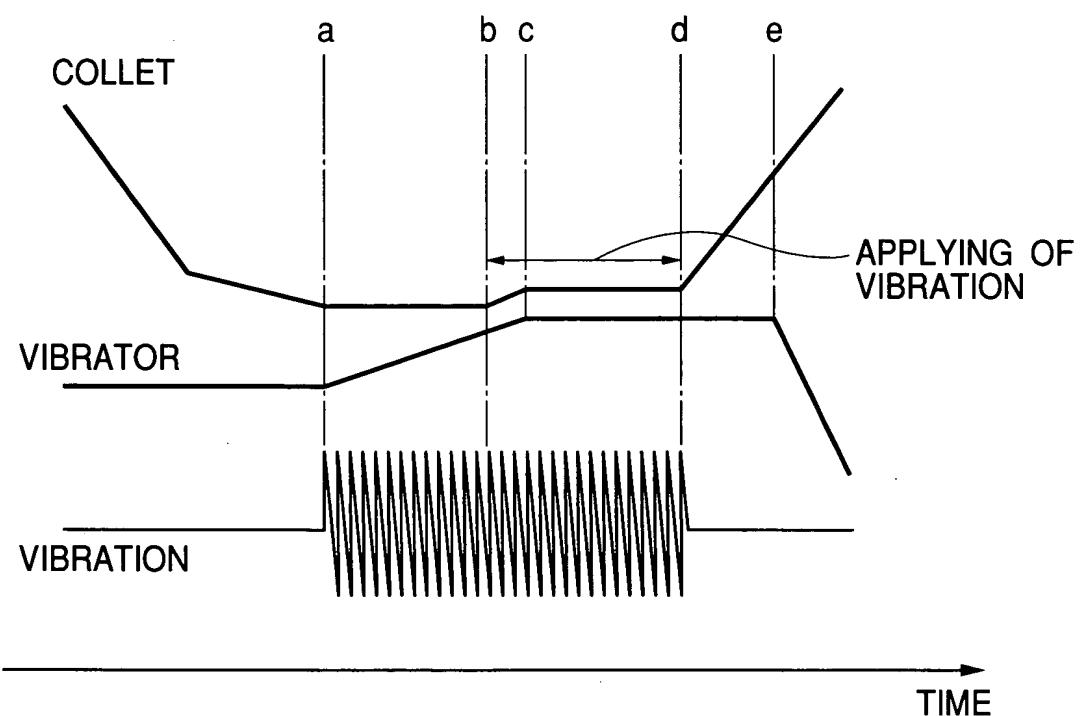


FIG. 12



- a : COLLET BROUGHT INTO CONTACT AND LOWERING OF COLLET STOPPED
- b : VIBRATOR BROUGHT INTO CONTACT AND APPLYING OF VIBRATION STARTED
- c : ELEVATION OF VIBRATOR STOPPED
- d : ELEVATION OF COLLET STARTED AND APPLYING OF VIBRATION STOPPED

FIG. 13

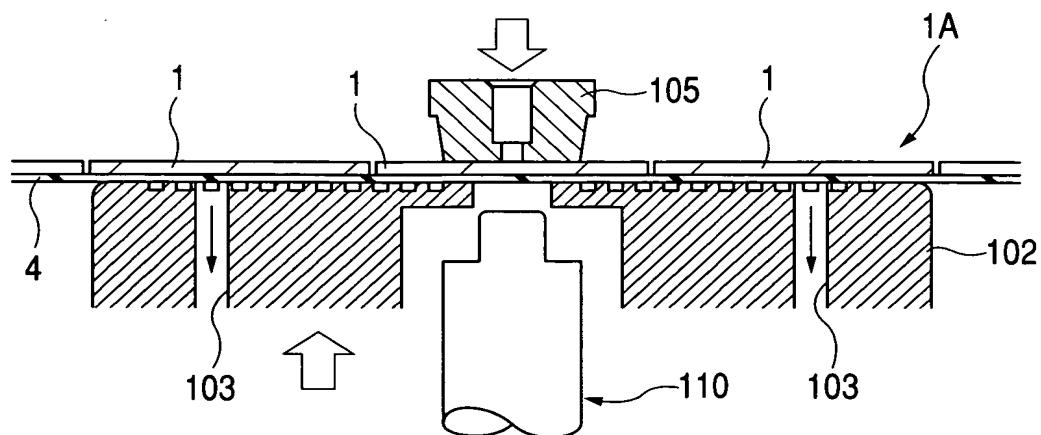
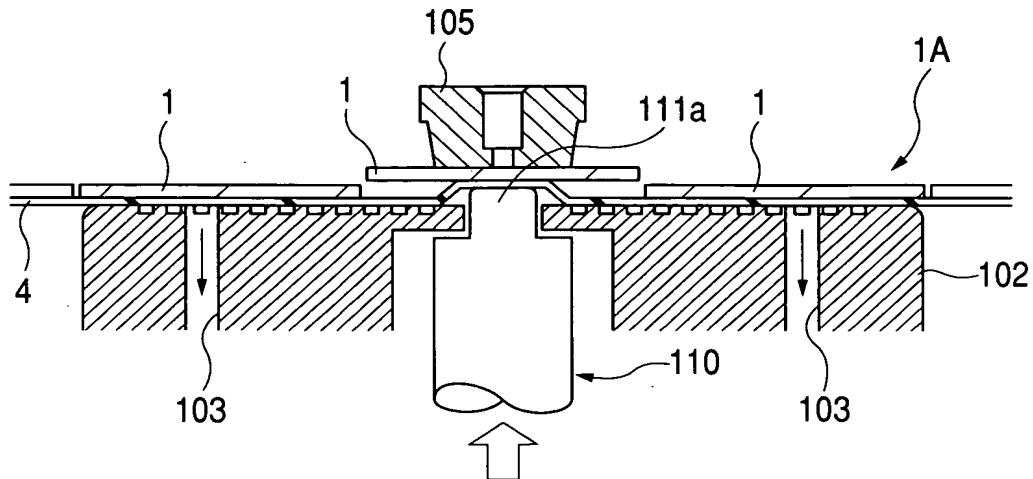


FIG. 14



1: SEMICONDUCTOR CHIP

4: ADHESIVE TAPE

110: VIBRATOR

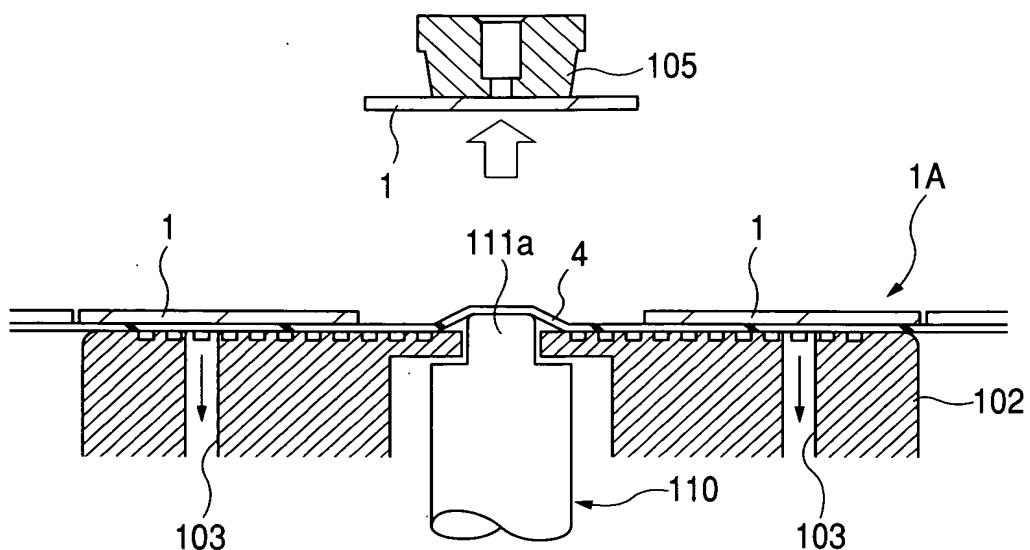
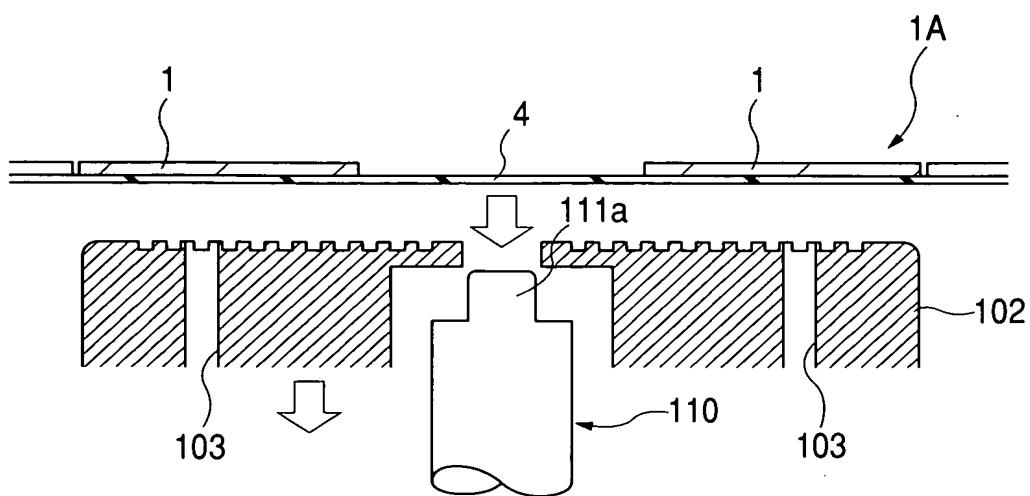
FIG. 15**FIG. 16**

FIG. 17

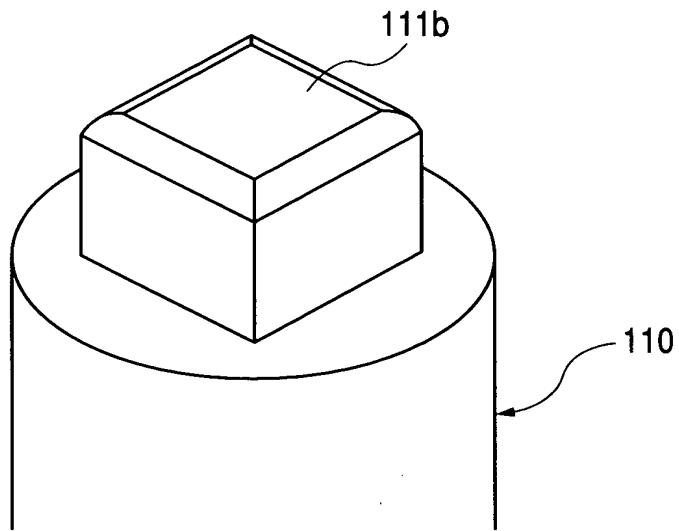


FIG. 18

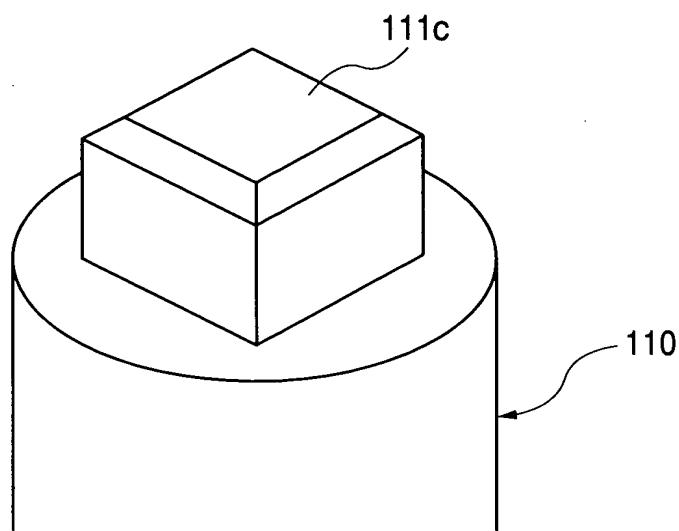


FIG. 19

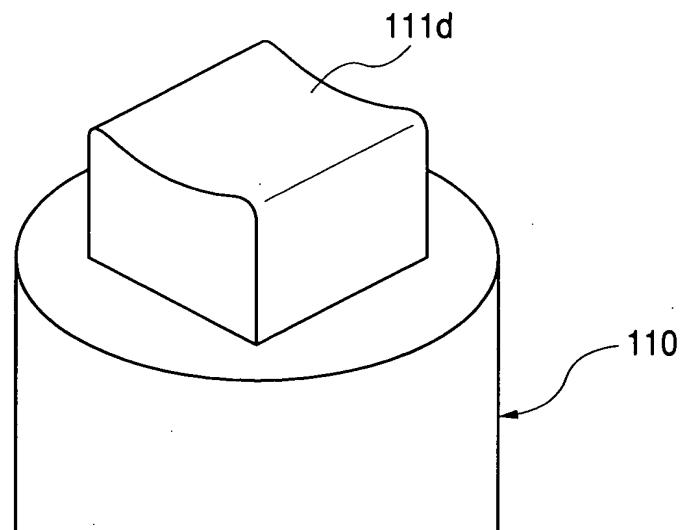


FIG. 20

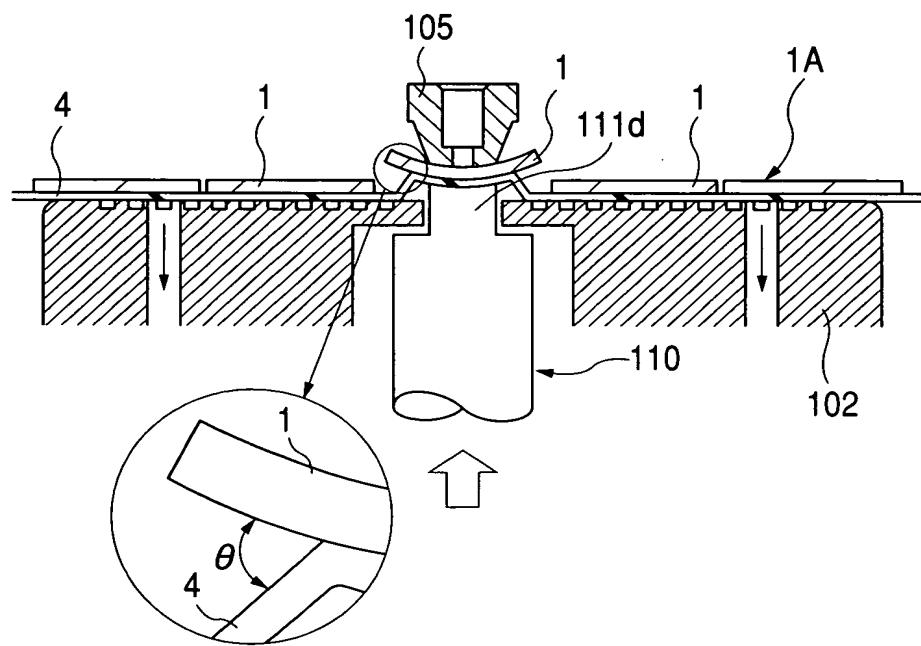


FIG. 21

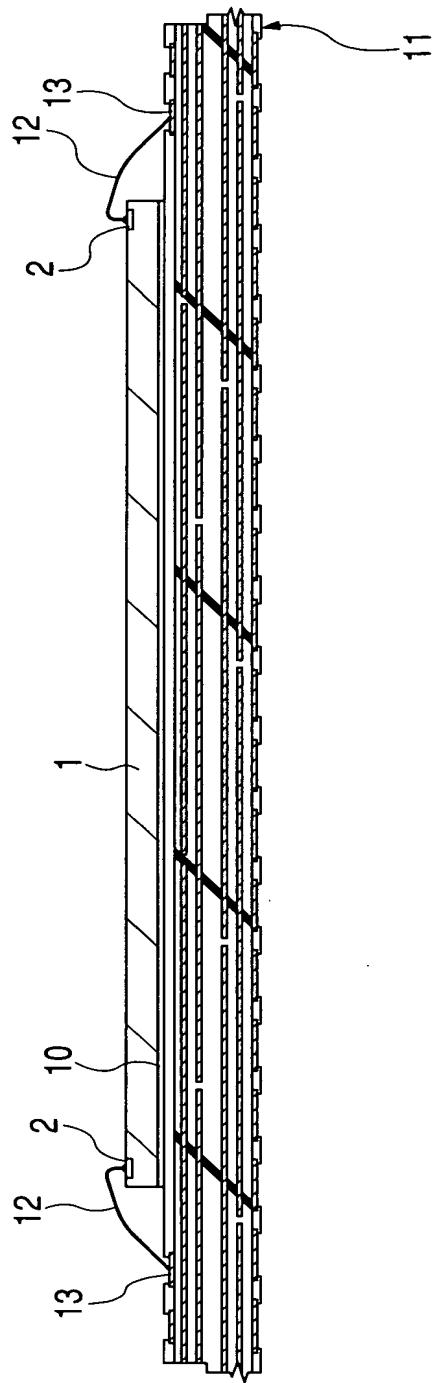


FIG. 22

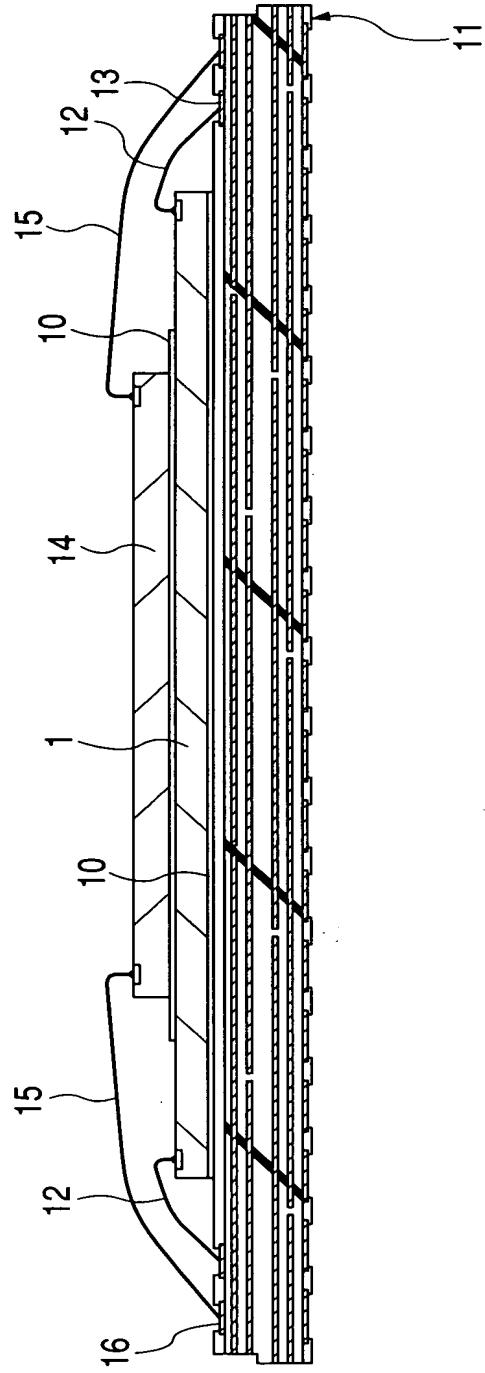


FIG. 23

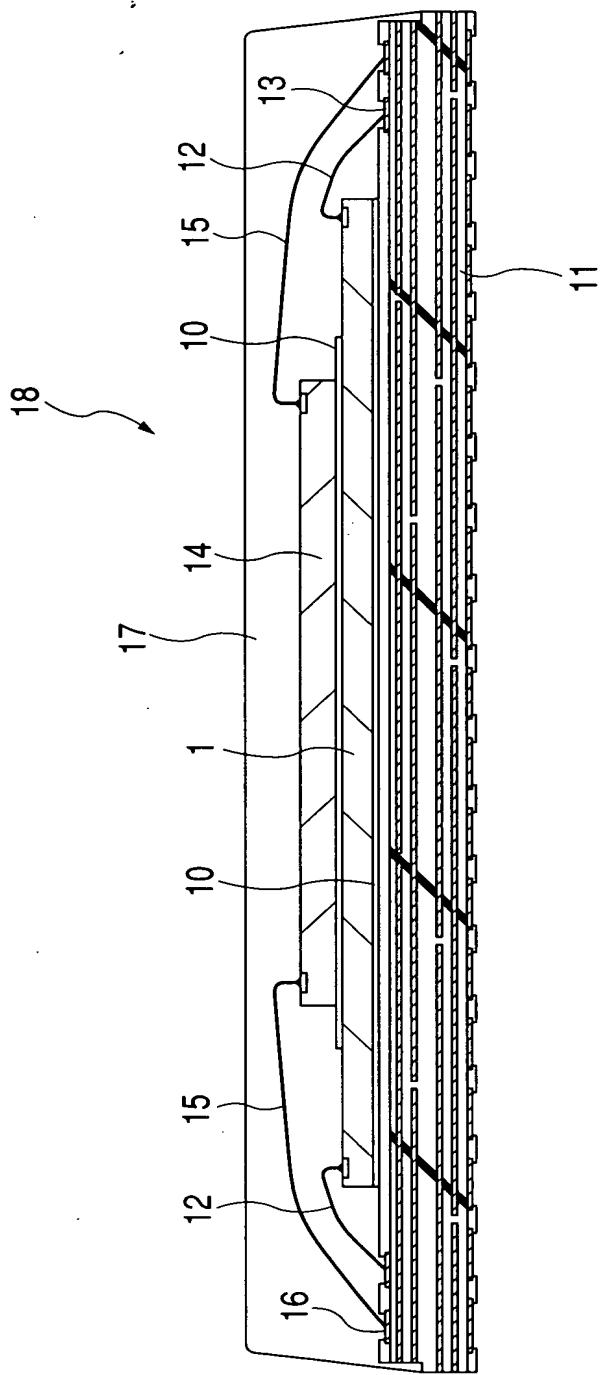
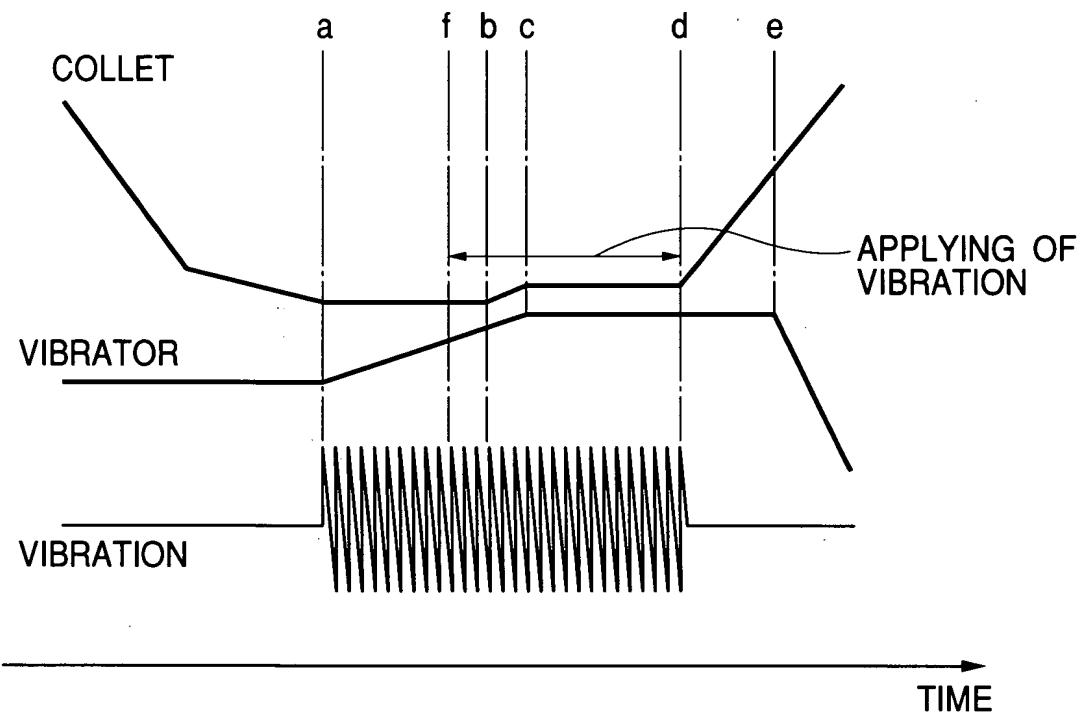


FIG. 24



- a : COLLET LOWERED AND STOPPED BEFORE BEING BROUGHT INTO CONTACT WITH CHIP
- f : VIBRATOR BROUGHT INTO CONTACT AND APPLYING OF VIBRATION STARTED
- b : COLLET AND CHIP BROUGHT INTO CONTACT WITH EACH OTHER AND CHIP BEING HELD
- c : ELEVATION OF VIBRATOR STOPPED
- d : ELEVATION OF COLLET STARTED AND APPLYING OF VIBRATION STOPPED

FIG. 25

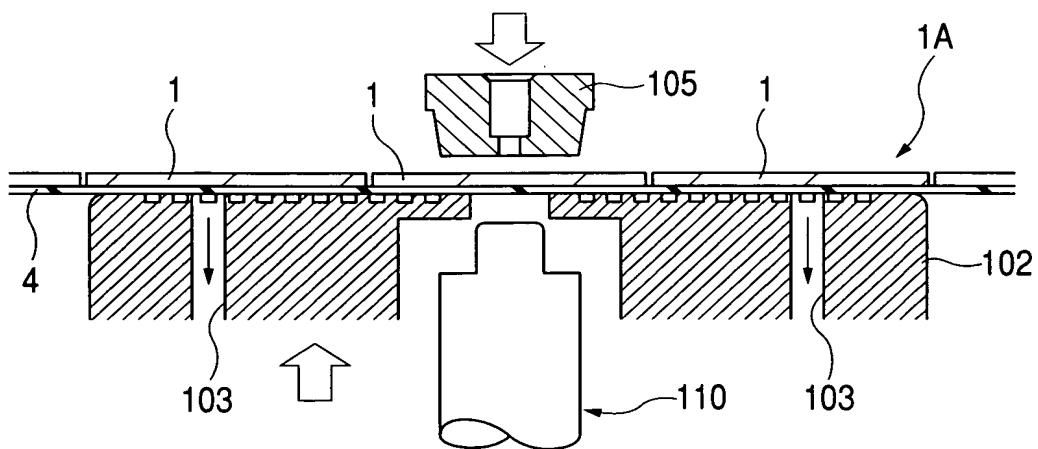


FIG. 26

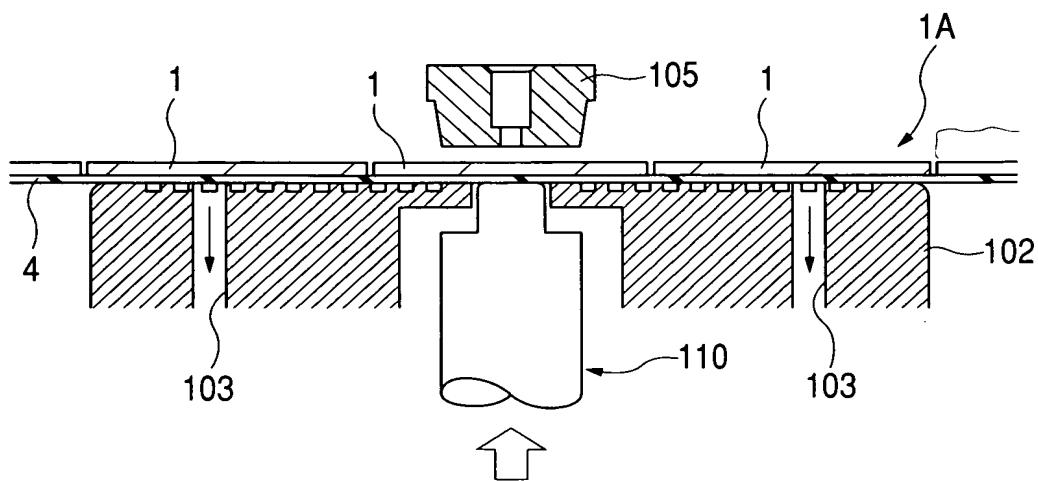


FIG. 27

